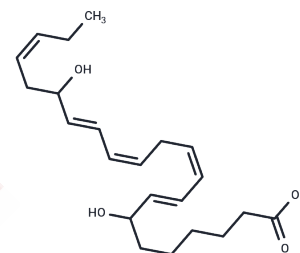


## 7(S),17(S)-dihydroxy-8(E),10(Z),13(Z),15(E),19(Z)-Docosapentaenoic Acid

### Chemical Properties

CAS No. :	887752-13-8
Formula:	C <sub>22</sub> H <sub>34</sub> O <sub>4</sub>
Molecular Weight:	362.51
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



### Biological Description

Description	Novel oxylipins, referred to as docosanoids, have been derived from C <sub>22</sub> polyunsaturated fatty acids 7(S),17(S)-dihydroxy-8(E),10(Z),13(Z),15(E),19(Z)-Docosapentaenoic acid (7(S),17(S)-hydroxy DPA) is a DPA-derived analog of the 17(S)-dihydroxy series of docosanoids known as protectins. Protectin D1, a DHA-derived dihydroxy fatty acid, exhibits potent anti-inflammatory activities. <sup>1,2,3</sup> Potentially, 7(S),17(S)-hydroxy DPA demonstrates similar properties; however, its biological activity has yet to be determined.
Targets(IC50)	Others

### Solubility Information

Solubility	DMF: 100 mg/mL (275.85 mM),Sonication is recommended. Ethanol: Miscible DMSO: 100 mg/mL (275.85 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7585 mL	13.7927 mL	27.5854 mL
5 mM	0.5517 mL	2.7585 mL	5.5171 mL
10 mM	0.2759 mL	1.3793 mL	2.7585 mL
50 mM	0.0552 mL	0.2759 mL	0.5517 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Serhan, C.N., Gotlinger, K., Hong, S., et al. Anti-inflammatory actions of neuroprotectin D1/protectin D1 and its natural stereoisomers: Assignments of dihydroxy-containing docosatrienes. *J. Immunol.* 176(3)1848-1859(2006)
- Ariel, A., and Serhan, C.N. Resolvins and protectins in the termination program of acute inflammation. *TRENDS in Immunology* 28(4)176-183(2007)
- Schwab, J.M., Chiang, N., Arita, M., et al. Resolvin E1 and protectin D1 activate inflammation-resolution programmes. *Nature* 447(7146)869-874(2007)

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